EN

ENGLISH

uemis ZURICH

SDA

Scuba Diver Assistant

Quick Reference Guide

uemis

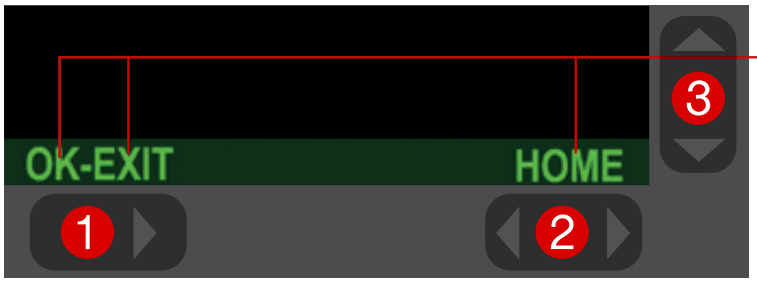
UNDERWATER EQUIPMENT
MADE IN SWITZERLAND

Getting Started

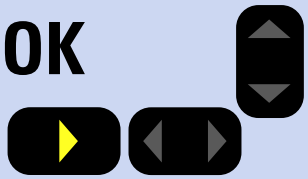
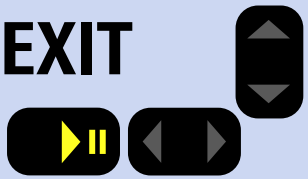
Carefully read the detailed instruction manual before diving with the Scuba Diver Assistant (SDA). Don't use the SDA without further instruction! The Quick Reference Guide explains the functional principle and provides a first overview. Self-explanatory functions and screens are not explained.

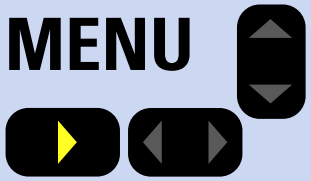
Fully charge the battery before the first use via the uemis Travel Charger or the USB connector on your computer.
Follow the instructions under Settings (page 9 and 10).

Operation and Display



Available key functions (Hot Keys)

On / Off	Simultaneously hold both keys until display switches On or Off. When submerged, the SDA automatically switches on.
OK 	**OK** or "confirm displayed value" press key ❶ a second to the right.
EXIT 	**EXIT** or "one step back" press key ❶ some seconds to the right.

Hot Key	*Function*
Move cursor	Left / right using key ❷ Up / down using key ❸
HOME	Return to HOME screen
ADJUST	Change settings
MENU 	Open menu (press shortly)
◀ ▶	Cursor key(s) (❷/❸) active

Home Screen

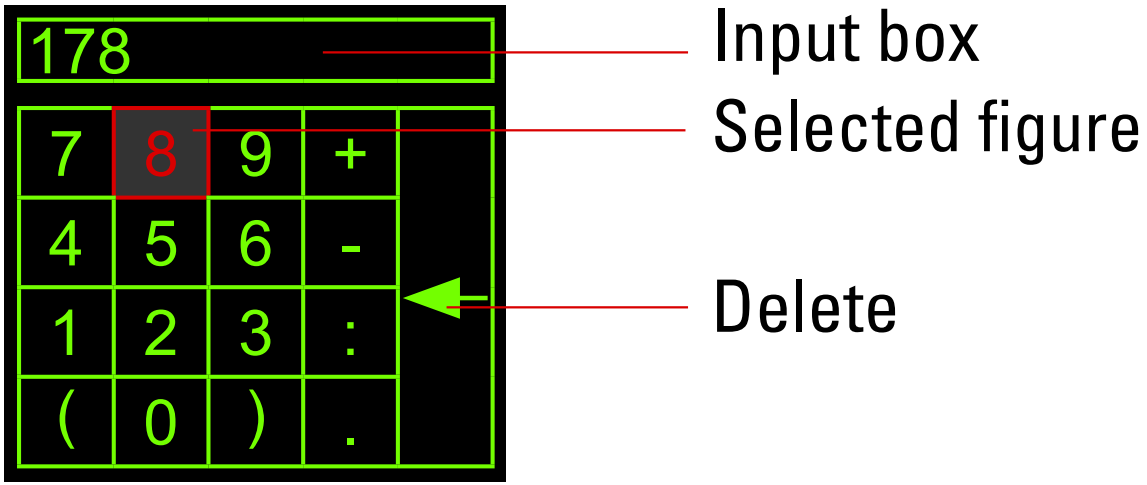
Please see next page for the legend.

❶ Desaturation time*
❷ No fly time*
❸ No dive time*
❹ Type of water
❺ Dive depth limit
❻ Safety level
❼ Open menu
❽ Surface interval
❾ Solar power, charge of battery
❿ Atmospheric pressure
⓫ Ceiling
⓬ Oxygen toxicity
⓭ Tank volume, O_2 mix, pressure

* Always respect the no flying time.
Don’t dive before the no dive time has elapsed.
Never ascend higher than the maximum altitude displayed ⓫.

Entering Numbers, Letters and Characters

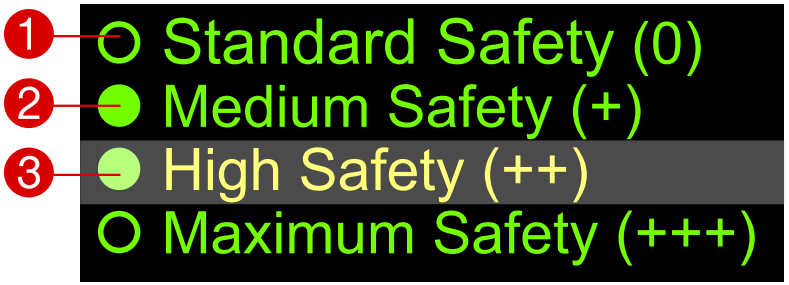
Example: numerical entry



Enter the following example:
Home, MENU > Dive Settings, OK > Gas, OK > Air, ADJUST > Tank Size, OK.

Use the cursor to select one number or character (red), then press OK. Select next number or character etc. To finish: EXIT.

Sub-Menu



Example:
Home, MENU >
Dive Settings, OK >
Safety, OK

❶ ○ Sub-menu available. Press ADJUST to open

❷ ● Activated settings

❸ ● Selected option (grey background)

❹ Press OK to confirm current settings.
Press EXIT to undo the change.

❺ Press ADJUST to open current settings.

The lower section of the screen shows information on the selected options or current settings.

Settings

Starting point for all inputs and queries is the MENU (HOME > MENU).

Specify before the initial use:

1. Select Setup > User. Choose a language and enter the nickname for unit identification purposes.

Important!

2. Choose the user profile that best corresponds to your training level (Air, Nitrox or Multigas) from the same menu. Input screens will then be personalized for your specific user profile.
3. Enter via Setup > Units & Formats.
4. Enter via Setup > Time & Date; please use top down sequence Date, Time Zone, Daylight Saving, Local Time.

5. Link tank transmitter:
   Put the tank transmitter under pressure.
   Choose Setup, OK > Link Modules, OK.
   Hold the transmitter parallel to the solar cell (see fig.).
   Wait until name of tank or tanks is displayed.

   Select a tank for the tank transmitter and press OK to confirm. The message "Linked" will appear.
   Return to HOME screen.

Specify before each dive:
Dive Settings (Gas, Safety, Limits, Water Type).
See the example on page 11.

Example of Gas and Tank Settings

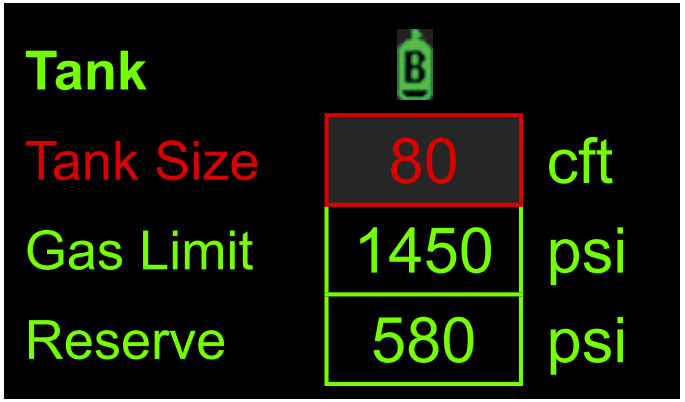
Example for the user profile "Air".

Select Dive Settings, OK > Gas, OK > Air, ADJUST.

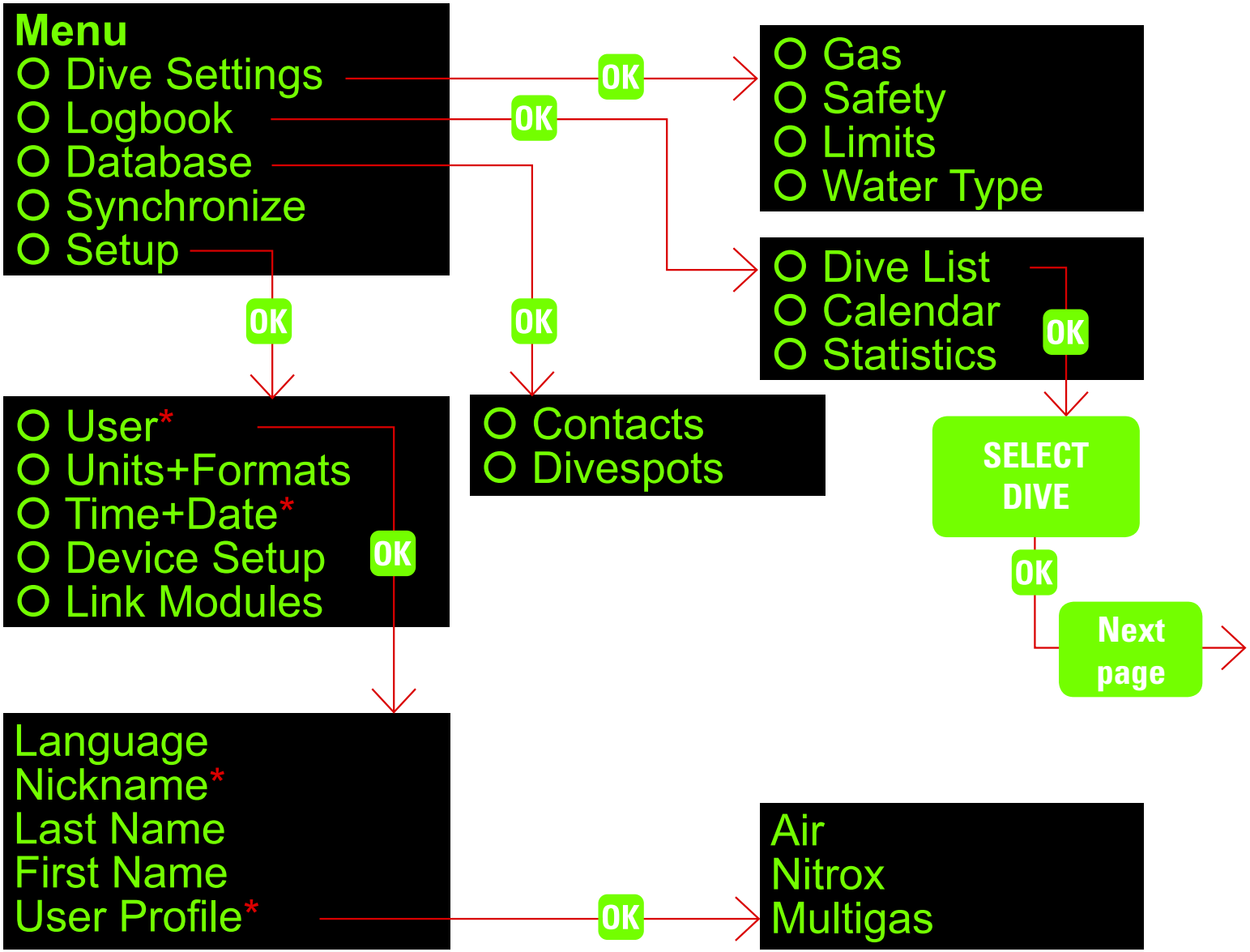
Select **Tank Size**, OK.
Enter Tank Size, EXIT.

Select **Gas Limit**, OK.
Enter Gas Limit, EXIT.

Select **Reserve**, OK.
Enter tank reserve, EXIT.

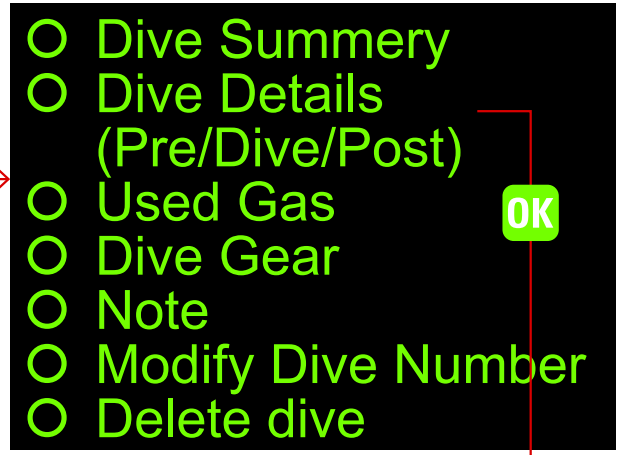


Menu Structure

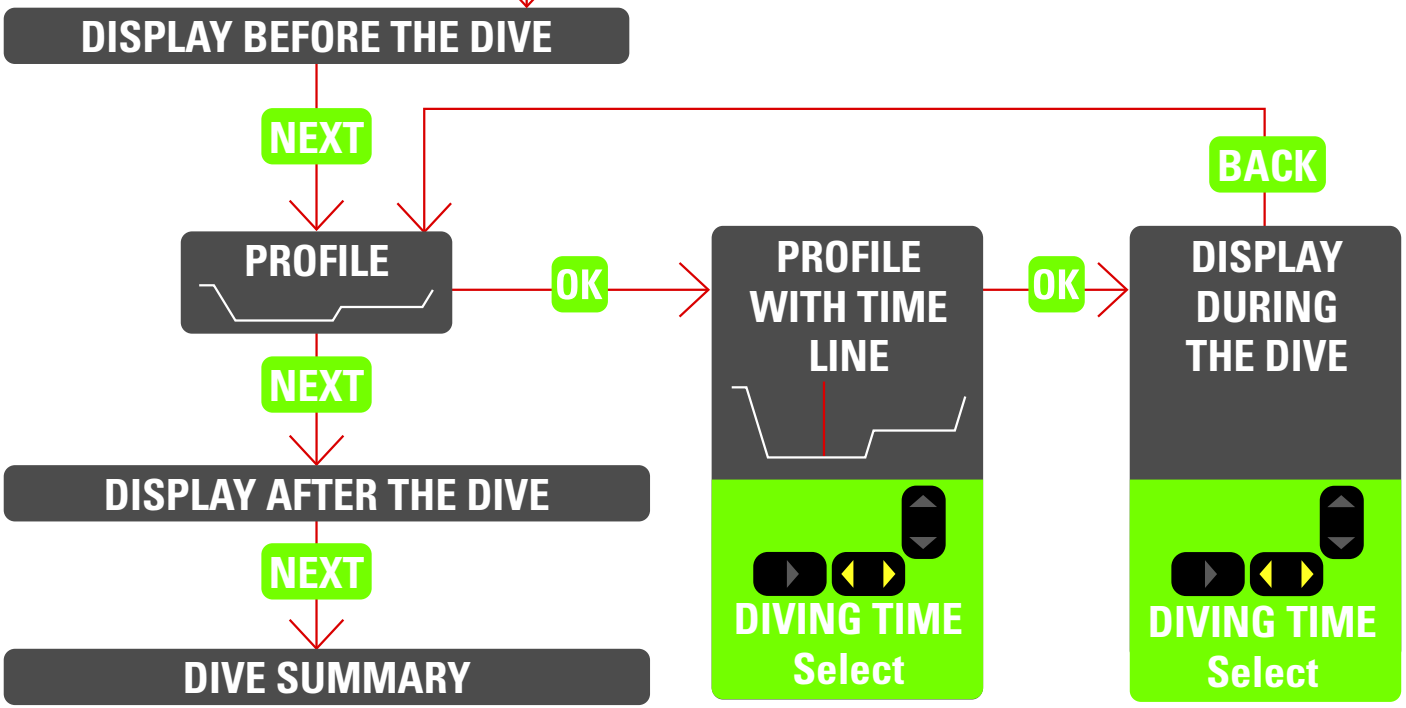


* These are mandatory data fields.

Logbook (profile, data displayed before, during and after the dive, diving spot information)

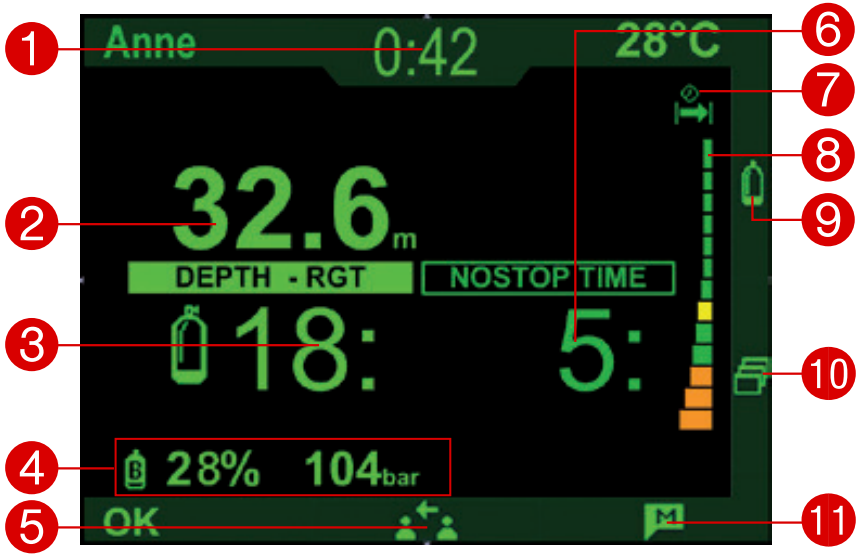


Path: MENU, Logbook, OK > Dive List, OK, Select Dive, OK.



Diving

No Stop Dive



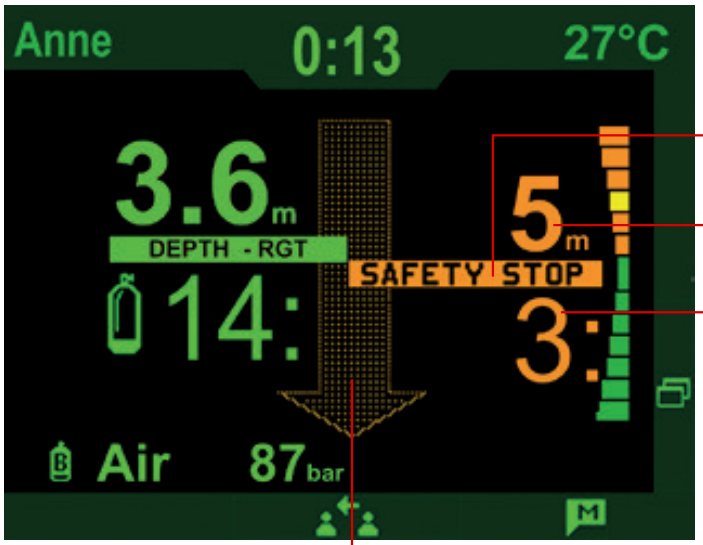
❶ Diving time
❷ Depth
❸ Remaining gas time
❹ Tank data
Active tanke
O_2 mix, pressure

❺ View buddy data
❻ No stop
❼ NO STOP symbol
❽ NO STOP graph
❾ Tank replace-ment (if more than one tank is used)
❿ Extra views
⓫ Flag

No stop time within safety stop range

Safety stop range:

Depth < 2 x safety stop depth



Safety stop

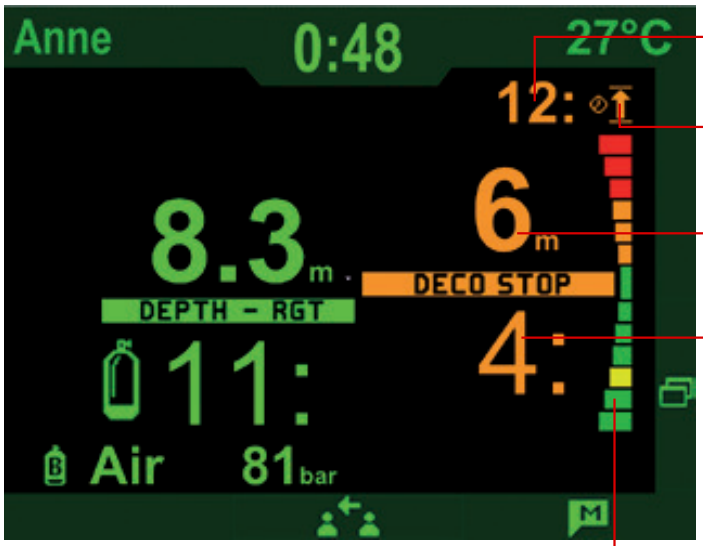
Safety stop depth

Safety stop time

Safety stop disregarded!

Dive down to safety stop depth!

Deco Dive (Deco Screen)

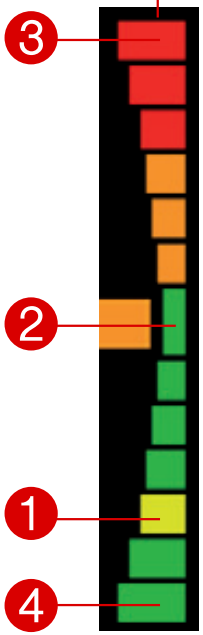


Ascent time

Ascent symbol

Deco stop depth ❷

Deco stop time



The graph shows your current depth ❶ in relation to deco stop depth ❷. ❸ indicates the next deco stop depth when ascending, ❹ the next deco stop depth descending (in our example 3 m and 9 m).

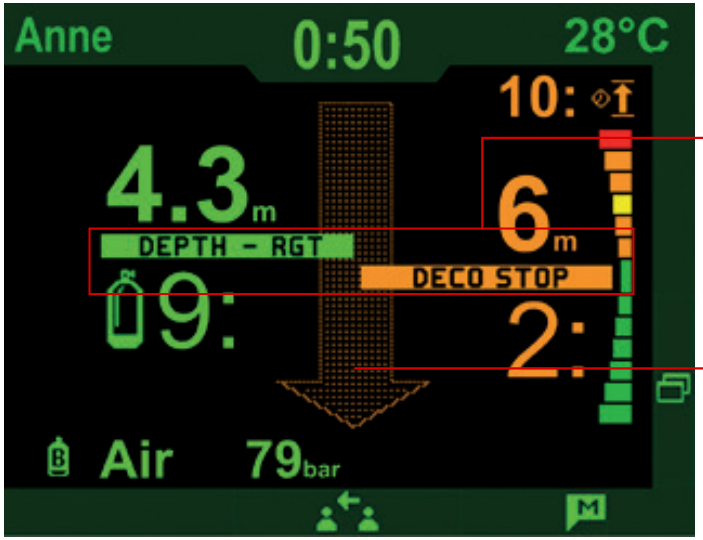
Red: Warning range

Orange: Caution range

(examples see next page)

Warnings and Alarms (Diving)

Depth shallower than deco stop depth



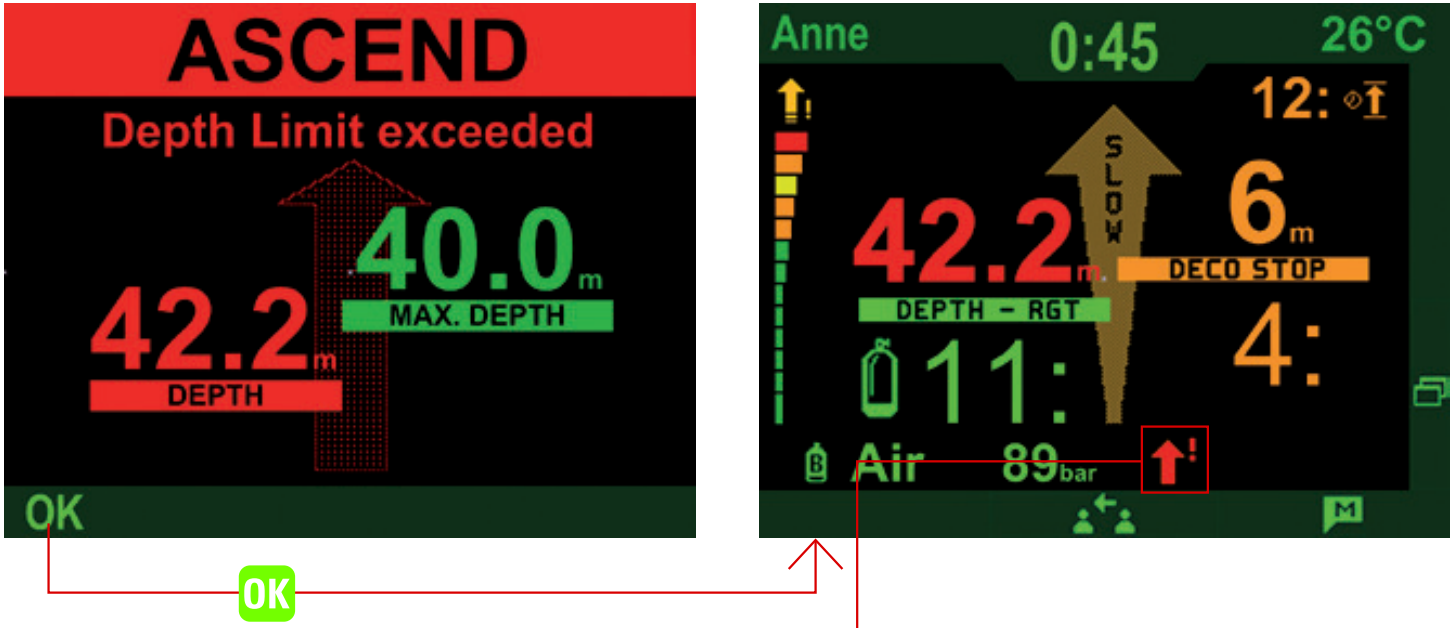
Relation current depth / deco stop depth

Caution, descend to deco stop depth!

Descend to deco stop depth! This view is displayed until the situation is resolved. This alarm cannot be acknowledged.

In dangerous situations, the SDA only shows the most important information and gives clear instructions.

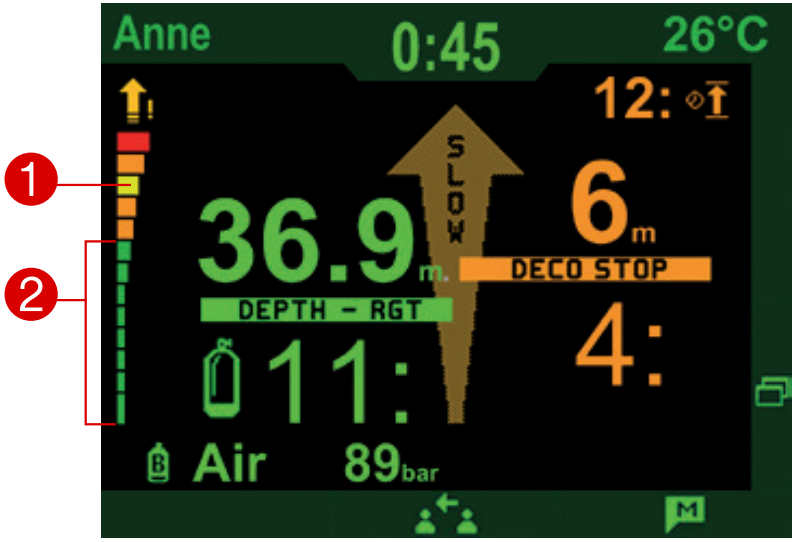
Depth limit exceeded

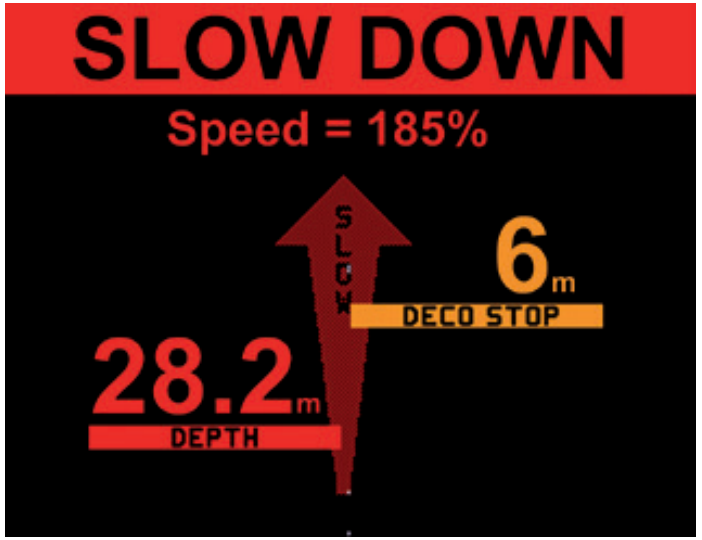


Ascend above the depth limit. Press OK to acknowledge warning.

Warning acknowledged, alarm still active.

Ascent speed too high





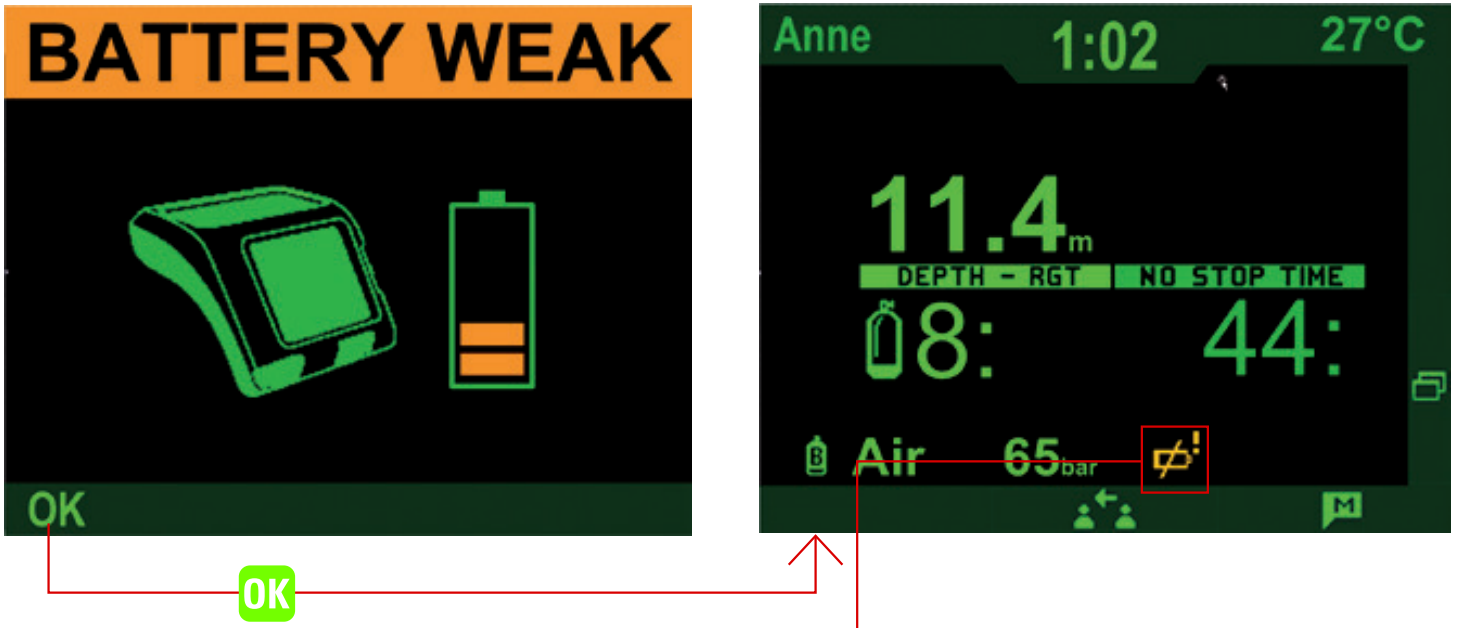
The graph indicates your current ascent speed ❶ in relation to the optimum ascent speed ❷.

- Warning range
- Caution range

Ascent speed too high! Slow down!

Warning is displayed until the cause is eliminated.

Battery warning (low battery)



Press OK to acknowledge caution alarm.

Caution alarm acknowledged, Caution alarm still active

You should surface observing the ascent instructions!

V1.09

Download the latest edition of the detailed user manual and this quick reference guide at www.uemis.com, or order the free print version of the user manual.

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